



Programme - Thursday, June 27th

09:00 - 09:45 **Registration and welcome coffee**

09:45 - 10:00 **Opening**
Prof. dr. Huib Kerstjens (NRS), (NVALT) and Bas Holverda (LongFonds)

10:00 - 11:00 **Session - AI possibilities and challenges in respiratory field**
Chairs: Dr. Peter Kunst, OLVG, Amsterdam and Dr. Anne M. van der Does, Leiden University Medical Center

AI in thoracic imaging: where do we stand?
Prof. dr. Rozemarijn Vliegenthart, Professor of Cardiothoracic Imaging/ Radiologist, UMCG, Groningen

Ultra-fast deep-learned pediatric CNS tumor classification during surgery
Dr. Jeroen de Ridder, Principal Investigator / Associate Professor in the Center for Molecular Medicine of the UMC Utrecht

11:00 - 11:15 Short stretch break

11:15 - 12:15 **Plenary Session – AI possibilities and challenges in respiratory field - part 2**

Artificial Intelligence in Drug Discovery - Towards Virtual Drug Discovery and Safety Assessment?
Prof. dr. Gerard van Westen, PI Computational Drug Discovery Drug Discovery and Safety, LACDR, Leiden

AI from bench to bedside: are we there yet?
Dr. Daan Caudri, Pediatric Respiratory & Sleep Physician / Clinical Epidemiologist, Erasmus MC – Sophia Children's Hospital, Rotterdam

12:15 - 13:30 **Lunch break, exhibition, poster viewing**

13:30 – 15:00 **Parallel Sessions**

Scientific Session 1: Pulmonary fibrosis

Chairs: Dr Elin Kersten, UMCG, Groningen and Dr. Marcel Veltkamp, st. Antonius Hospital

Applied genetics and genomics in pulmonary fibrosis

Dr. Coline van Moorsel, Head ILD Research and R&D Pulmonology, ILD Center of Excellence, St. Antonius Hospital, Nieuwegein

Pulmonary fibrosis in children

Drs. Sanne Kloosterman, pediatric pulmonologist, Erasmus MC - Sophia Children's Hospital, Rotterdam

Pulmonary fibrosis, what's new in pathogenesis and treatment?

Drs. Jelle Miedema, Pulmonologist, ILD Center, Erasmus MC Rotterdam

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Scientific Session 2: Prediction of treatment responses in lung diseases

Chairs: Dr. Abilash Ravi, Leiden University Medical Center and Prof. Martina Schmidt, Faculty of Science and Engineering - University of Groningen

Prediction of treatment responses in Obstructive Pulmonary Diseases: Phenotyping or Endotyping?

Prof. dr. Maarten van der Berge, Pulmonologist, University Medical Center Groningen

Treatment options in (peritoneal) mesothelioma

Dr. Eva Madsen, Gastrointestinal and Oncological Surgeon, Erasmus MC Rotterdam

Prediction of cystic fibrosis disease and therapeutic response with organoid models

Prof. dr. Jeffrey Beekman, Professor Cellular Disease Models at University Medical Center Utrecht

15:00 - 15:30 **Coffee break, exhibition, poster viewing**

15:30 - 17:30 **Chiesi Young Investigator Session**

Chairs: Prof. dr. Janette Burgess, University Medical Center Groningen and Dr. Daniel Korevaar, Amsterdam UMC

17:30 - 18:30 **NRS Annual General Assembly**

18:30 - 20:00 **Buffet Dinner** (registration required)

20:00 - 21:30 **Evening Networking Activity - Escape Box** (registration required)

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Programme - Friday, June 28th

- 07:00 – 08:30** **Mentorship breakfast**
- 08:30 - 09:00** **Registration and welcome coffee**
- 09:00 – 10:30** **Parallel Sessions**

Scientific Session 3: National Program Lung Research (NPL) 2.0

NPL2.0 until now: update on process and progress
Dr. Agnes Boots, Assistant Professor Respiratory Toxicology, Maastricht University and Prof. dr. Anke-Hilse Maitland vd Zee, Amsterdam UMC

Prevention of lung diseases (developments within P4O2 project)
Prof. dr. Anke-Hilse Maitland vd Zee, Prof Precision Medicine in Respiratory Disease, Amsterdam UMC

Early origin of lung diseases
Dr. Niki Reynaert, Maastricht University and Prof. dr. Robbert Rottier, associate professor, department of Pediatric Surgery Erasmus Medical Center, Rotterdam

Standardization of in vitro models: the lung-on-a-chip initiative
Prof. dr. Reinoud Gosens, University Groningen and Dr Anne van der Does, Assistant Professor, Leiden University Medical Center, Leiden

In vitro models to reduce animal use in lung research (CPBT project)
Prof. dr. Gerard Koppelman, pediatric pulmonologist, UMCG / GRIAC

Possible collaborations with Longfonds and NRS
Dr. Károly Illy, Director, Longfonds and Prof. dr. Huib Kerstjens, Chair of NRS

10.00u-10.30u: Interactive discussion on future NPL projects and collaborations
Moderator: Prof. dr. Anke-Hilse Maitland vd Zee, Prof Precision Medicine in Respiratory Disease, Amsterdam UMC

Scientific Session 4: Career Development in the respiratory field
Chairs: Bas Holverda, Longfonds and Mieke Metzemaekers, Erasmus MC, Rotterdam

25 years of entrepreneurship in Life Sciences, lessons learned
Dr. Henk Viëtor, Chief Medical Officer, DC4U

Bridging the Gap: Communicating Science in Layman's Terms
Marlijn Klerk, Online content specialist, Longfonds

Building a career in science communication
Stephan van Duin, Sr. Advisor Science Communication, Directorate Marketing & Communication, UMC Utrecht

- 10:30 - 11:00** **Coffee Break**
- 11.00 – 12.30** **Poster viewing and discussion with presenters**

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12:30 - 13:30 Lunch break, exhibition, poster viewing

12:30 – 13:30 GSK Sparrow Award Event

13:30 – 15:00 Parallel Sessions

Scientific Session 5: Pulmonary disorders: transition from childhood to adulthood

Chairs: Dr. Sami Simons, MUMC+ and Dr. Lilly Verhagen, University Medical Center Utrecht

Congenital pulmonary disorders in adulthood

Dr. Lieke Kamphuis, Pulmonologist, Erasmus MC, Rotterdam

The Global RSV vaccine landscape

Dr. Natalie Mazur, Pediatric Resident, St Antonius Hospital/ Postdoc Wilhelmina Children's Hospital, Utrecht

Lung Function of Preterm Children Parsed by a Polygenic Risk Score for Adult COPD

Prof. dr. Markus Weckmann, Deputy Head of Department Pediatric Pneumology & Allergology/ Joint Professor for Epigenetics in Pneumology, Leibniz Lung Center, Research Center Borstel & The University of Lübeck, University Medical Center Schleswig-Holstein, Campus Centrum Lübeck, Germany

Scientific Session 6: Novel cell types in lung diseases

Chairs: Dr. Stefan Prekovic, UMCU and Dr. Niki Reynaert, Maastricht University

Using patient-derived pluripotent stem cells to understand alveolar epithelial cell state and model pulmonary fibrosis

Prof. Killian Hurley, Associate Professor, RCSI, Consultant Respiratory Physician, Beaumont Hospital/ HRB Emerging Clinical Scientist, Ireland

Childhood-onset asthma is characterized by airway epithelial hillock-to-squamous differentiation in early life

Dr. Elin Kersten, Pediatric Pulmonologist, University Medical Center Groningen

The origin of the pulmonary vascular development

Prof. dr. Robbert Rottier, associate professor, department of Pediatric Surgery Erasmus Medical Center, Rotterdam

15:00 - 15:15 Coffee break, exhibition, poster viewing

15:15 – 16:45 Plenary Session - Metabolome & immune system intersection

Chairs: Prof dr. Pieter Hiemstra, Leiden University Medical Center and Dr. Marieke Overbeek, Haaglanden Medisch Centrum

Host-commensal interactions shape mucosal immune responses

Prof. dr. Hermelijn Smits, Host-commensal Interactions and Immune Modulation, Leiden University

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Metabolism and the Brain: the role of tryptophan and fatty acid metabolism in tuberculous meningitis mortality

Dr. Arjan van Laarhoven, Researcher / Internal Medicine, Radboudumc, Nijmegen

Swierenga Medal Winner presentation

16:45 - 17:00

Awards Ceremony & Closing

Impact Statement Award

Poster Awards – supported by Stichting Astma Bestrijding

Young Investigator Award – supported by Chiesi

GSK SPARROW award

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